

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041422\
 Data File : VN071997.D
 Acq On : 14 Apr 2022 15:07
 Operator : JC\MD
 Sample : N2406-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 220413004-02-VOA

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 04/15/2022
 Supervised By :Mahesh Dadoda 04/15/2022

Quant Time: Apr 15 01:38:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.657	128	82406	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	430919	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.745	117	384207	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	163488	28.159	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.867%		
60) 4-Bromofluorobenzene	12.727	95	142424	25.001	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	83.333%		
63) Toluene-d8	10.439	98	500931	28.722	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.733%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.822	74	30518	8.985	ug/l	92
15) Acetone	4.293	58	7104m	8.101	ug/l	
23) tert-Butyl Alcohol	5.363	59	239501	220.262	ug/l #	100
34) Benzene	8.457	78	38439	1.774	ug/l #	55
45) 1,4-Dioxane	9.575	88	19990	164.086	ug/l	89
62) Toluene	10.504	91	18912	0.812	ug/l	97
64) Chlorobenzene	11.769	112	169850	11.820	ug/l	99
66) Ethyl Benzene	11.839	91	33020	1.304	ug/l	100
67) m/p-Xylenes	11.951	106	33233	3.374	ug/l	96
68) o-Xylene	12.280	106	28192	2.880	ug/l	95
70) Isopropylbenzene	12.574	105	18810	0.766	ug/l	100
75) 2-Chlorotoluene	13.010	91	9185	0.548	ug/l	91
76) 1,3,5-Trimethylbenzene	13.057	105	5659	0.287	ug/l	89
80) 1,2,4-Trimethylbenzene	13.363	105	25860	1.352	ug/l #	81
84) 1,4-Dichlorobenzene	13.692	146	63990	6.836	ug/l	97
87) 1,2-Dichlorobenzene	13.986	146	5215	0.550	ug/l	96
91) Naphthalene	15.504	128	43778	9.470	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

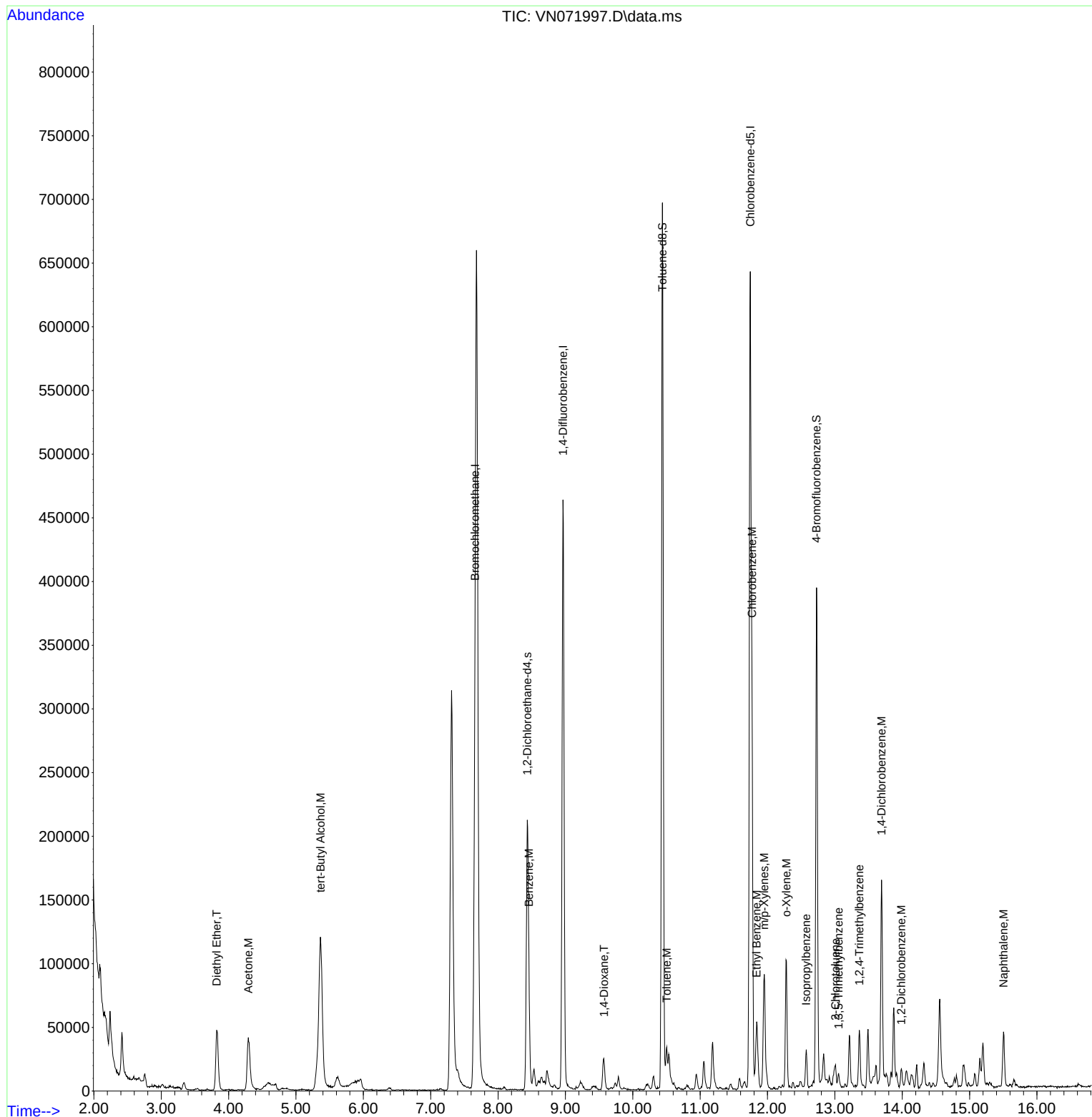
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041422\
Data File : VN071997.D
Acq On : 14 Apr 2022 15:07
Operator : JC\MD
Sample : N2406-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

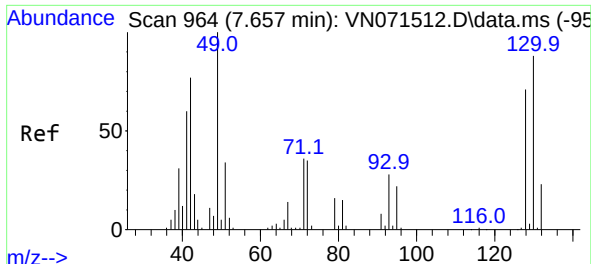
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220413004-02-VOA

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Supervised By :Mahesh Dadoda 04/15/2022

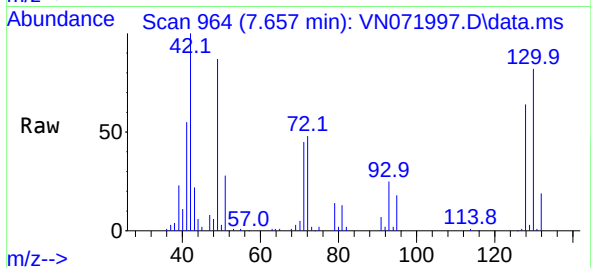
Quant Time: Apr 15 01:38:00 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 24 12:03:44 2022
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.657 min Scan# 90
Delta R.T. 0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

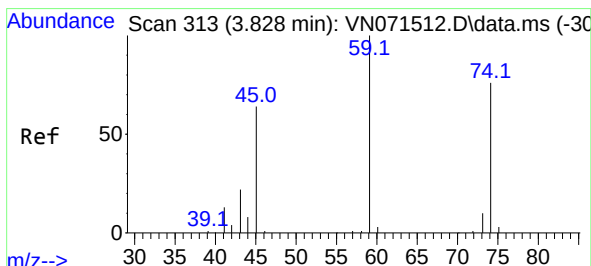
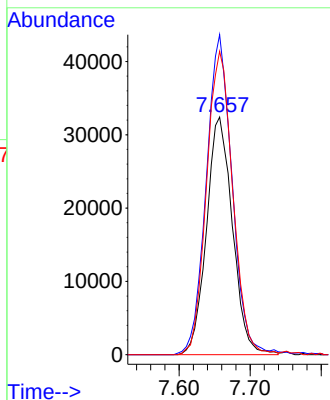
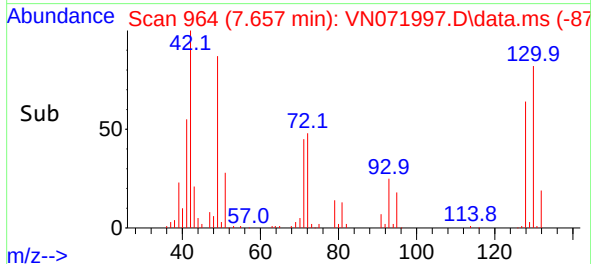
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MSVOA_N
ClientSampleId :
220413004-02-VOA



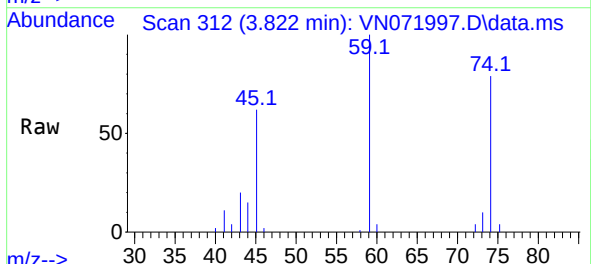
Tgt Ion:128 Resp: 82400
Ion Ratio Lower Upper
128 100
49 133.1 0.0 392.3
130 128.9 0.0 320.2

Manual Integrations
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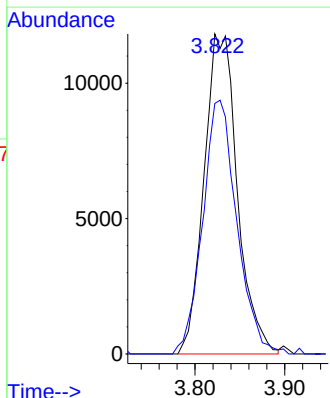
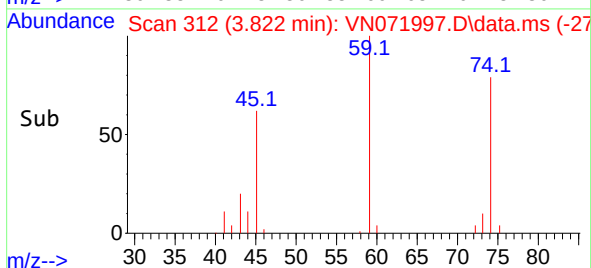
Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022

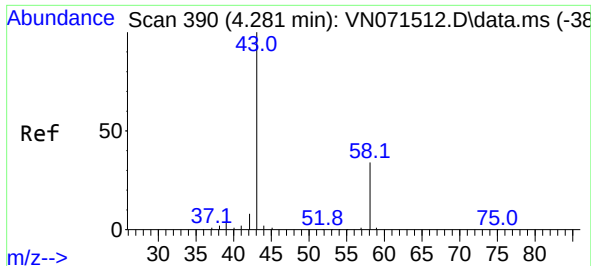


#8
Diethyl Ether
Concen: 8.985 ug/l
RT: 3.822 min Scan# 312
Delta R.T. -0.006 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07



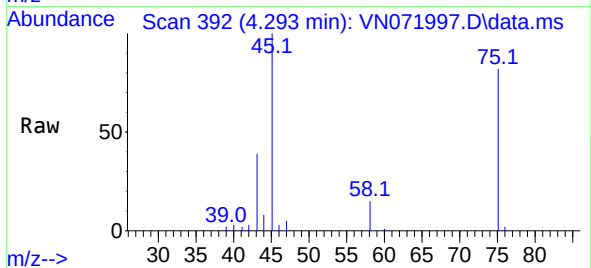
Tgt Ion: 74 Resp: 30518
Ion Ratio Lower Upper
74 100
45 81.0 17.6 158.8





#15
Acetone
Concen: 8.101 ug/l m
RT: 4.293 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

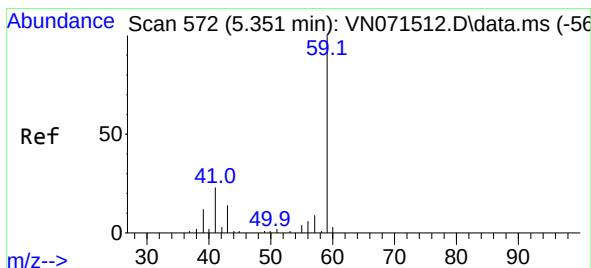
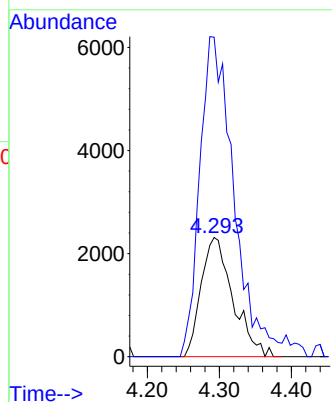
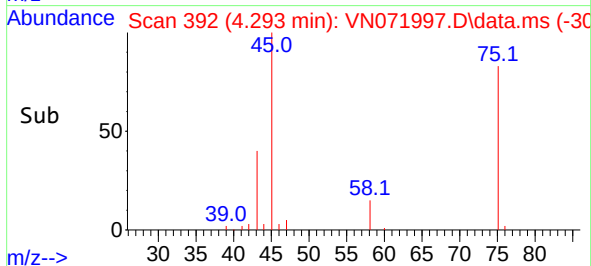
Instrument :
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Tgt Ion: 58 Resp: 7104
Ion Ratio Lower Upper
58 100
43 267.9 256.6 384.8

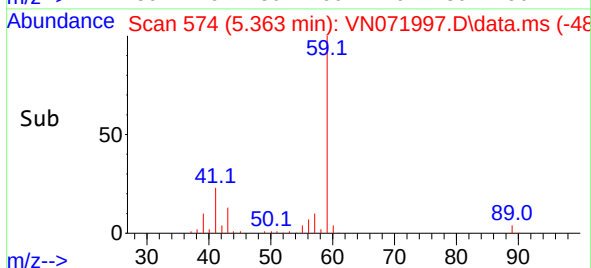
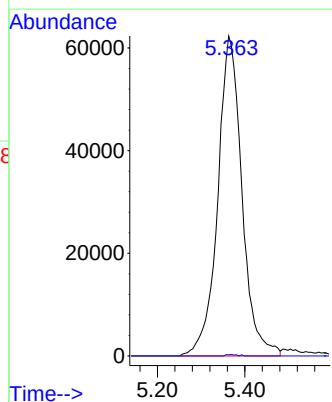
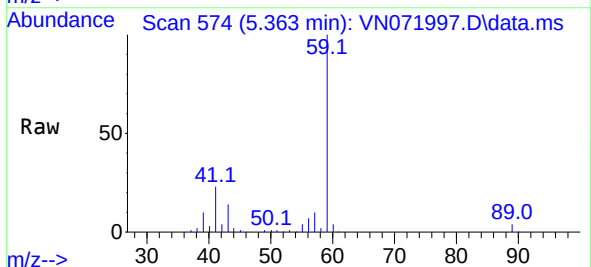
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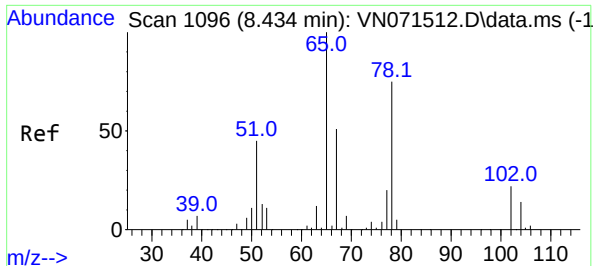
Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022



#23
tert-Butyl Alcohol
Concen: 220.262 ug/l
RT: 5.363 min Scan# 574
Delta R.T. 0.012 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

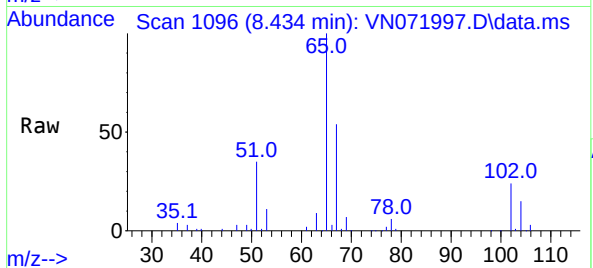
Tgt Ion: 59 Resp: 239501
Ion Ratio Lower Upper
59 100
52 0.2 0.0 0.0#





#27
1,2-Dichloroethane-d4
Concen: 28.159 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

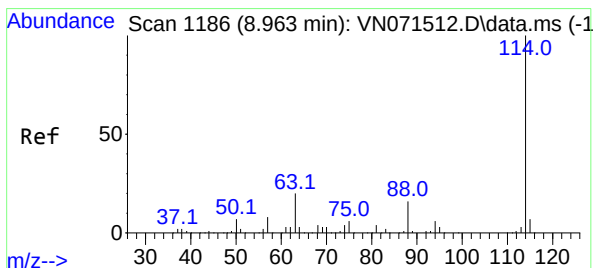
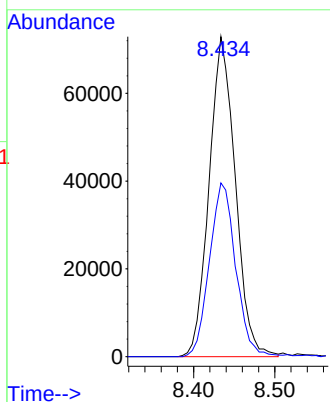
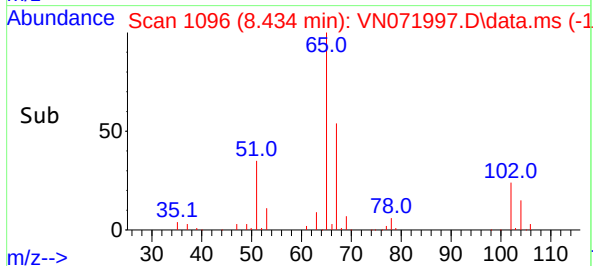
Instrument :
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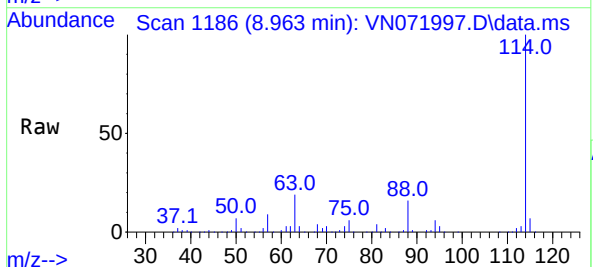
Tgt Ion: 65 Resp: 163488
Ion Ratio Lower Upper
65 100
67 54.5 40.2 60.2

Manual Integrations
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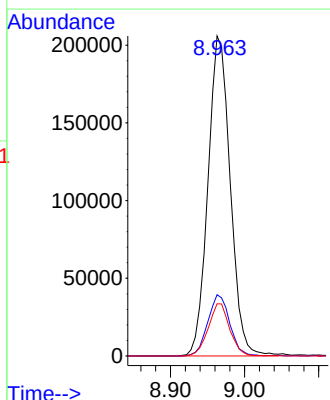
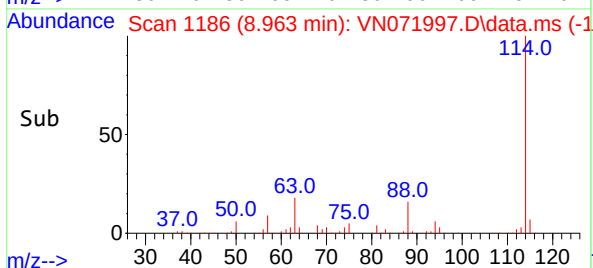
Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022

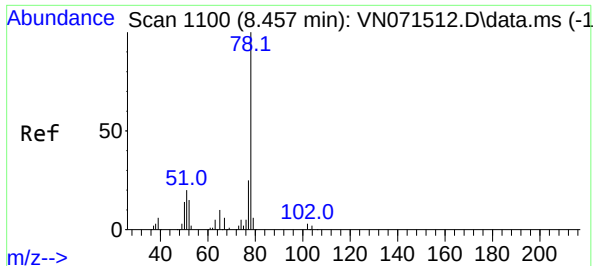


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07



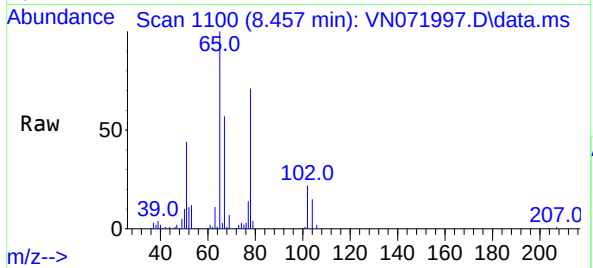
Tgt Ion:114 Resp: 430919
Ion Ratio Lower Upper
114 100
63 18.8 15.8 23.6
88 15.7 11.6 17.4





#34
Benzene
Concen: 1.774 ug/l
RT: 8.457 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

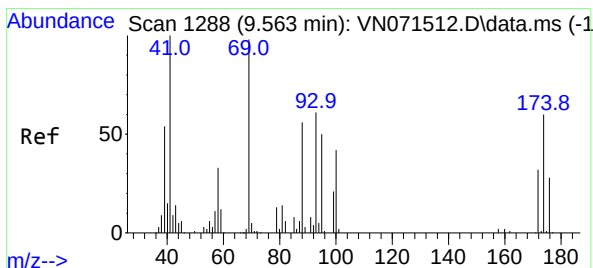
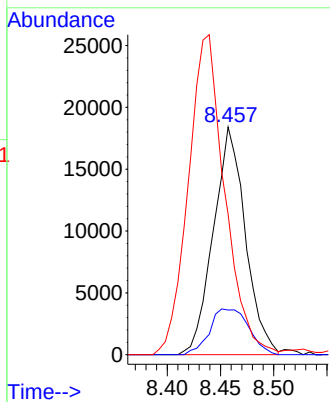
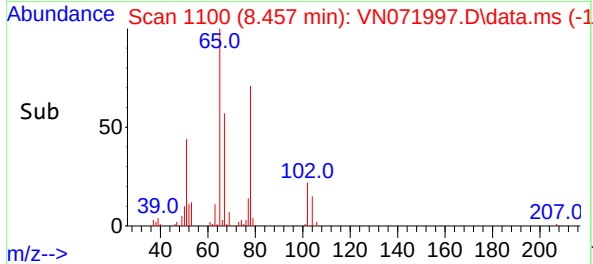
Instrument :
MSVOA_N
ClientSampleId :
220413004-02-VOA



Tgt Ion: 78 Resp: 38439
Ion Ratio Lower Upper
78 100
77 19.6 19.1 28.7
51 60.4 16.0 24.0

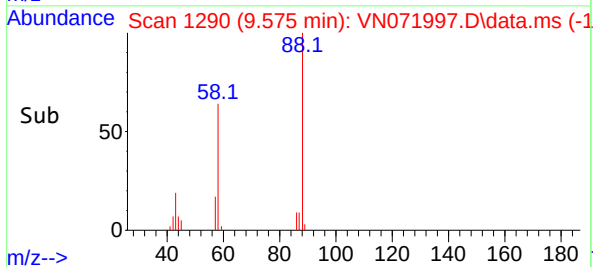
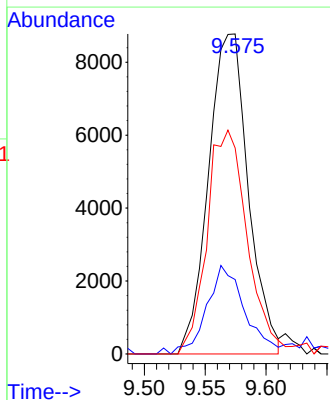
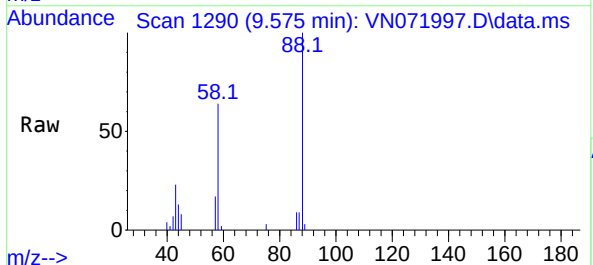
Manual Integrations
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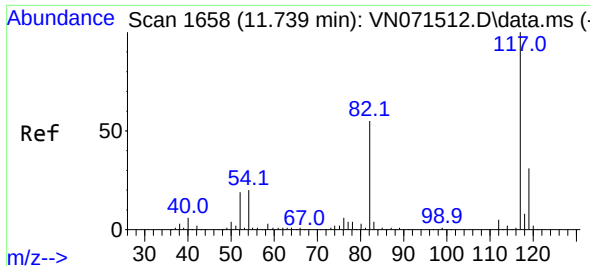
Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022



#45
1,4-Dioxane
Concen: 164.086 ug/l
RT: 9.575 min Scan# 1290
Delta R.T. 0.012 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

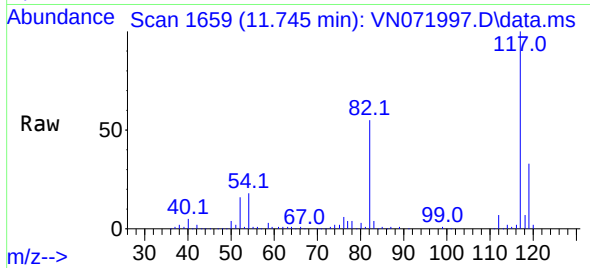
Tgt Ion: 88 Resp: 19990
Ion Ratio Lower Upper
88 100
43 26.1 25.0 37.6
58 70.4 49.4 74.2





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.745 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

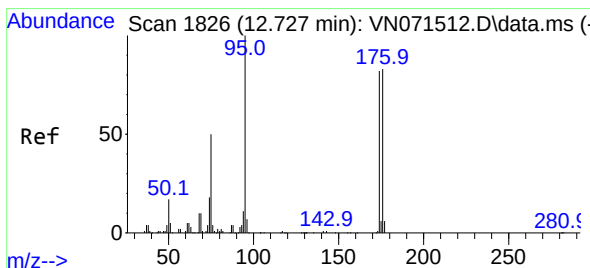
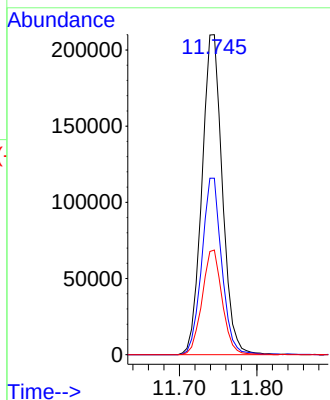
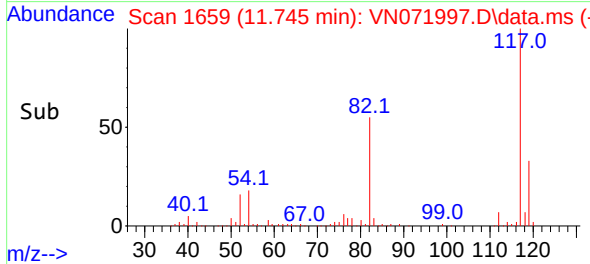
Instrument :
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220413004-02-VOA



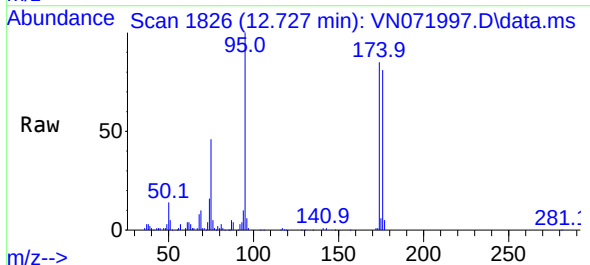
Tgt Ion: 117 Resp: 38420
Ion Ratio Lower Upper
117 100
82 53.9 43.6 65.4
119 32.2 25.8 38.6

Manual Integrations
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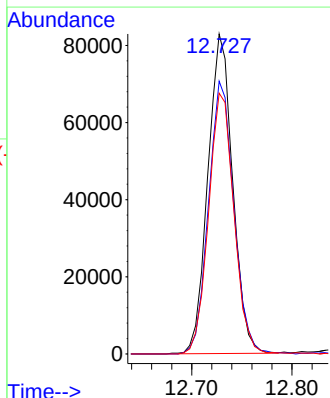
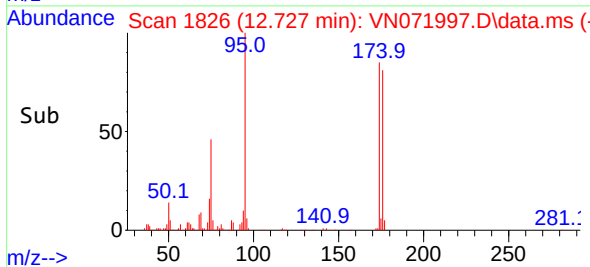
Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022

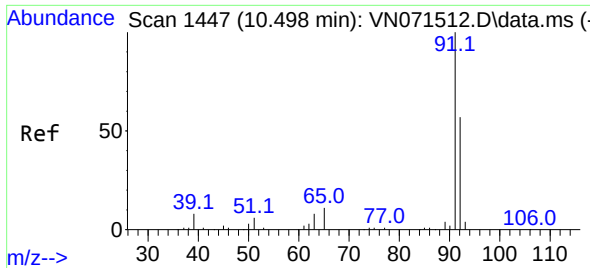


#60
4-Bromofluorobenzene
Concen: 25.001 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07



Tgt Ion: 95 Resp: 142424
Ion Ratio Lower Upper
95 100
174 87.1 62.9 94.3
176 83.3 61.0 91.4





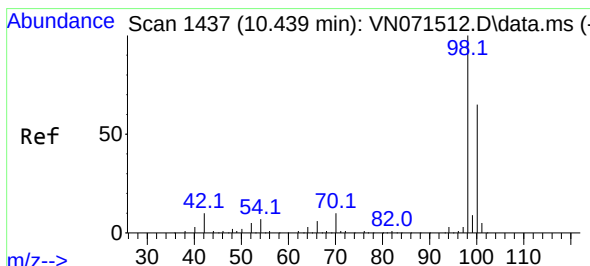
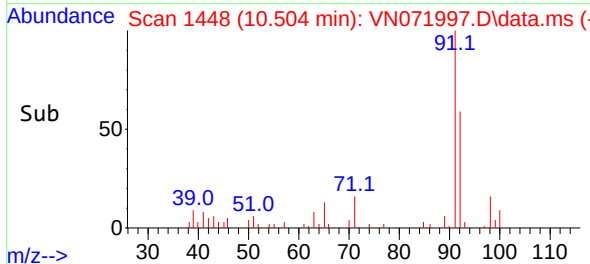
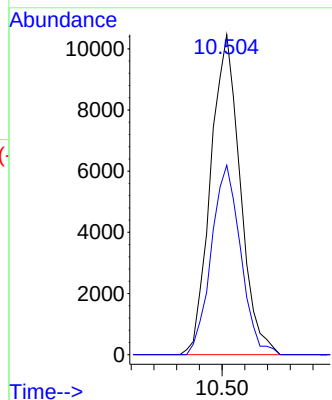
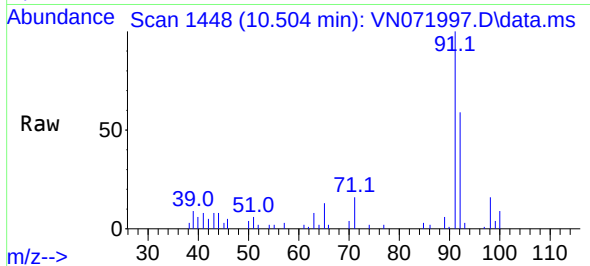
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Toluene
Concen: 0.812 ug/l
RT: 10.504 min Scan# 1447
Delta R.T. 0.006 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

Instrument :
MSVOA_N
ClientSampleId :
220413004-02-VOA

Tgt Ion: 91 Resp: 1891
Ion Ratio Lower Upper
91 100
92 57.8 44.6 67.0

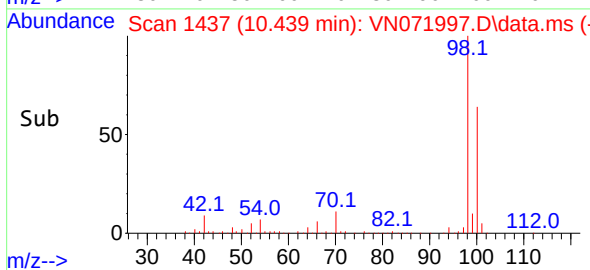
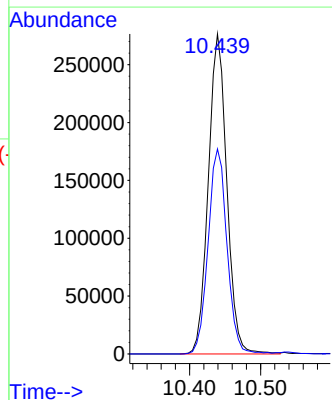
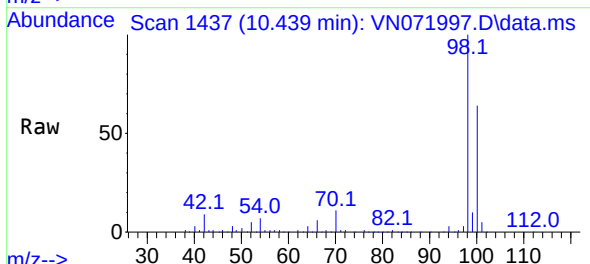
Manual Integrations
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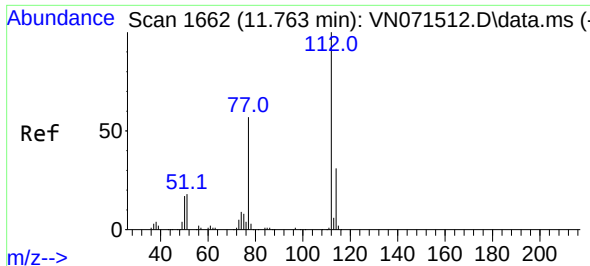
Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022



#63
Toluene-d8
Concen: 28.722 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

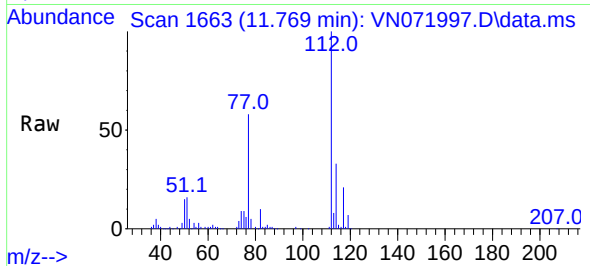
Tgt Ion: 98 Resp: 500931
Ion Ratio Lower Upper
98 100
100 65.3 50.6 76.0





#64
Chlorobenzene
Concen: 11.820 ug/l
RT: 11.769 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

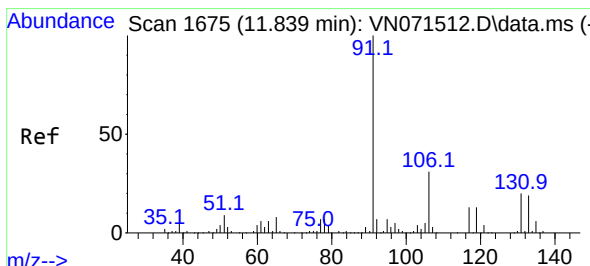
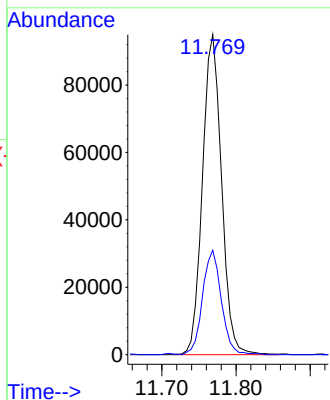
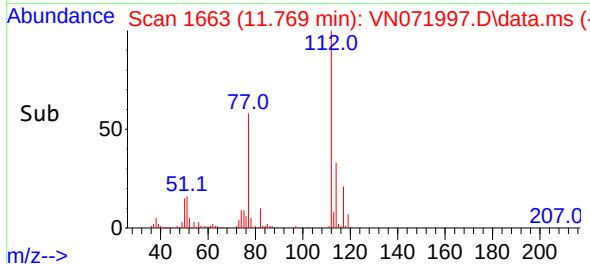
Instrument :
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ClientSampleId :
220413004-02-VOA



Tgt Ion: 112 Resp: 169850
Ion Ratio Lower Upper
112 100
114 32.7 25.8 38.6

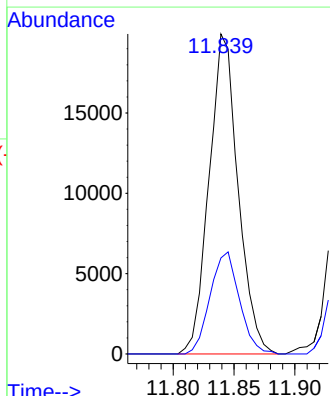
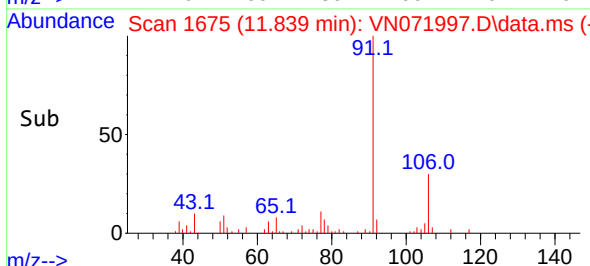
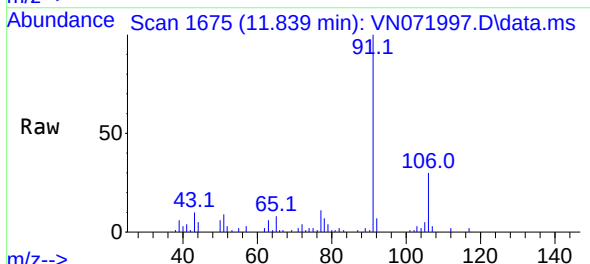
Manual Integrations
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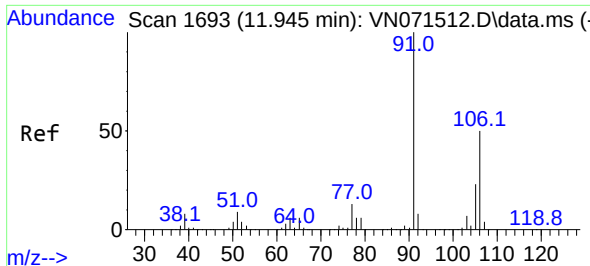
Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022



#66
Ethyl Benzene
Concen: 1.304 ug/l
RT: 11.839 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

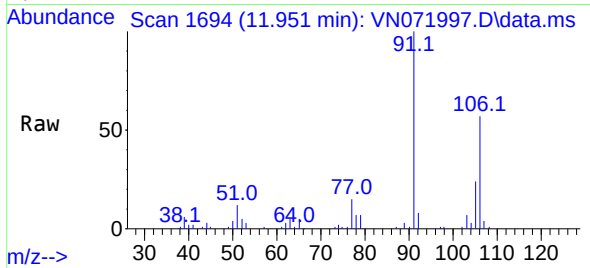
Tgt Ion: 91 Resp: 33020
Ion Ratio Lower Upper
91 100
106 30.0 24.0 36.0





#67
m/p-Xylenes
Concen: 3.374 ug/l
RT: 11.951 min Scan# 1694
Delta R.T. 0.006 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

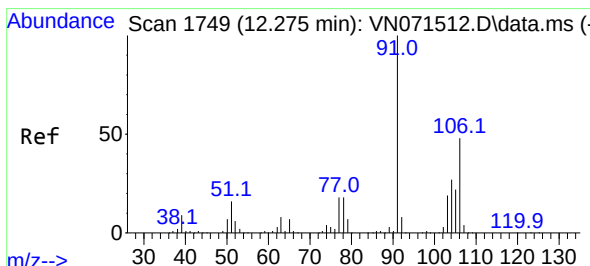
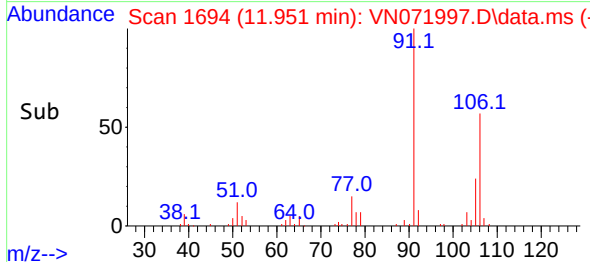
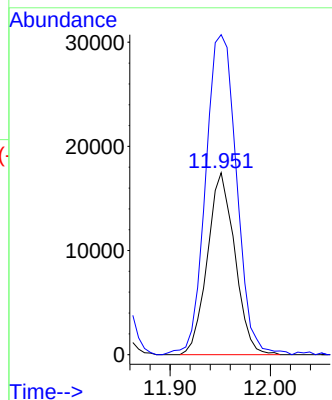
Instrument :
MSVOA_N
ClientSampleId :
220413004-02-VOA



Tgt Ion:106 Resp: 3323
Ion Ratio Lower Upper
106 100
91 197.7 162.9 244.3

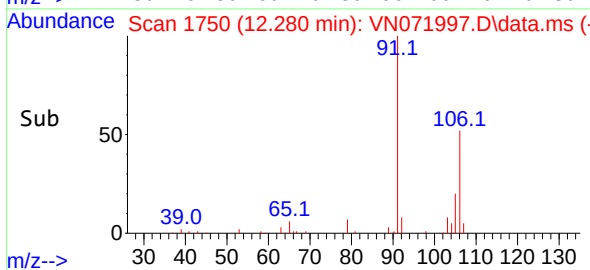
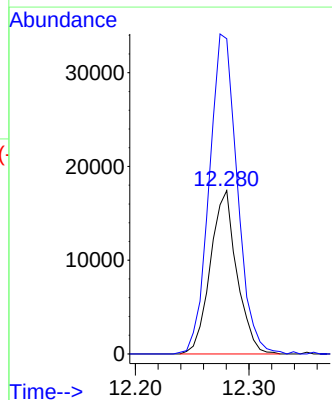
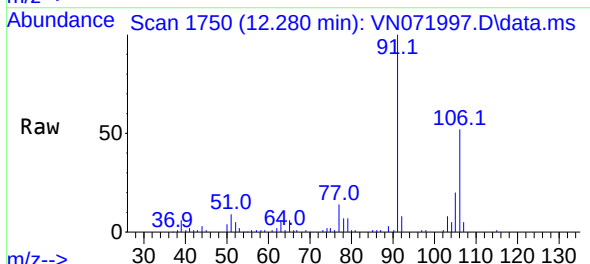
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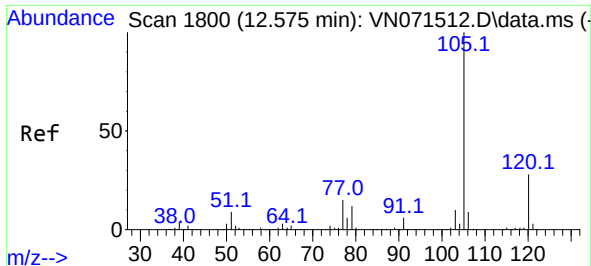
Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022



#68
o-Xylene
Concen: 2.880 ug/l
RT: 12.280 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

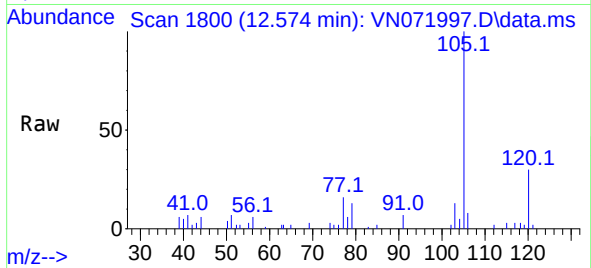
Tgt Ion:106 Resp: 28192
Ion Ratio Lower Upper
106 100
91 207.6 107.7 323.1





#70
Isopropylbenzene
Concen: 0.766 ug/l
RT: 12.574 min Scan# 1800
Delta R.T. -0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

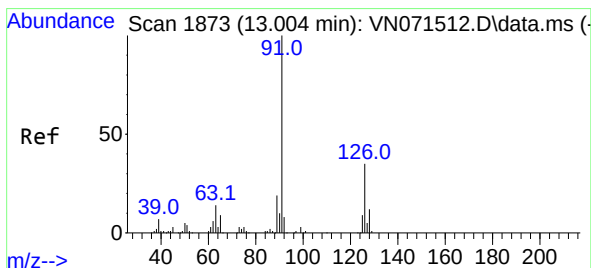
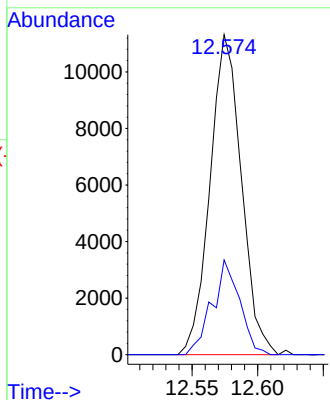
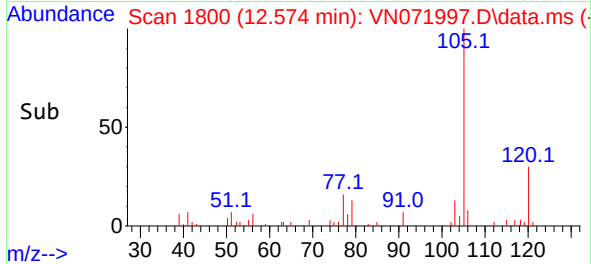
Instrument :
MSVOA_N
ClientSampleId :
220413004-02-VOA



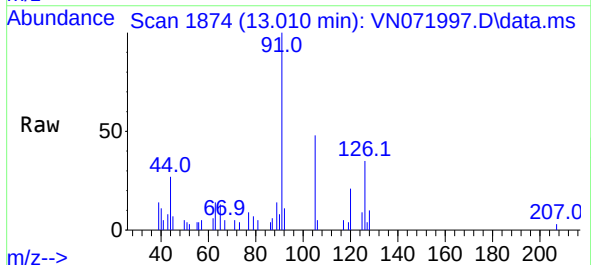
Tgt Ion:105 Resp: 18810
Ion Ratio Lower Upper
105 100
120 26.0 18.3 34.1

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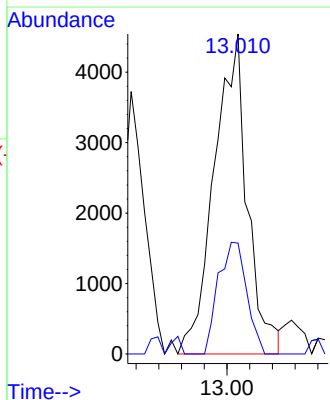
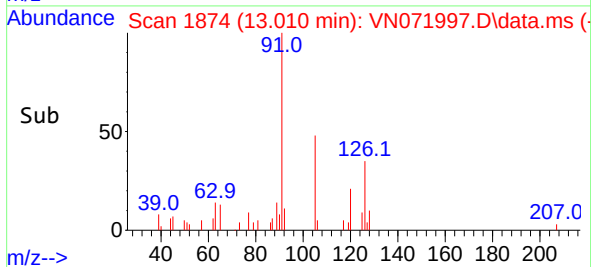
Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022

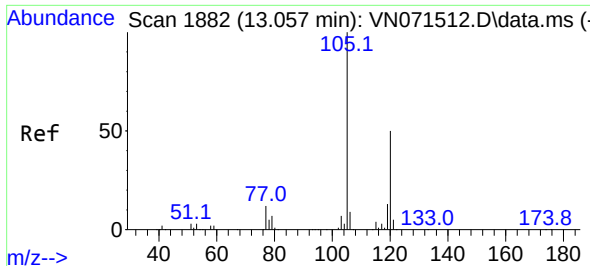


#75
2-Chlorotoluene
Concen: 0.548 ug/l
RT: 13.010 min Scan# 1874
Delta R.T. 0.006 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07



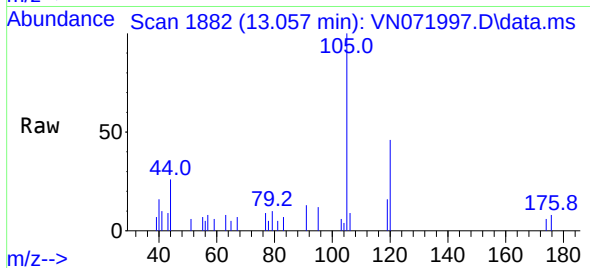
Tgt Ion: 91 Resp: 9185
Ion Ratio Lower Upper
91 100
126 29.9 0.0 69.8





#76
1,3,5-Trimethylbenzene
Concen: 0.287 ug/l
RT: 13.057 min Scan# 1882
Delta R.T. -0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

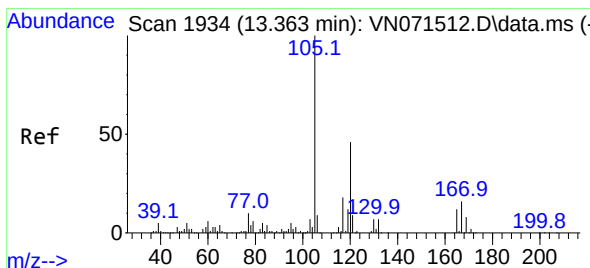
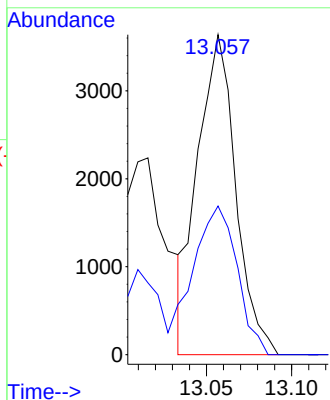
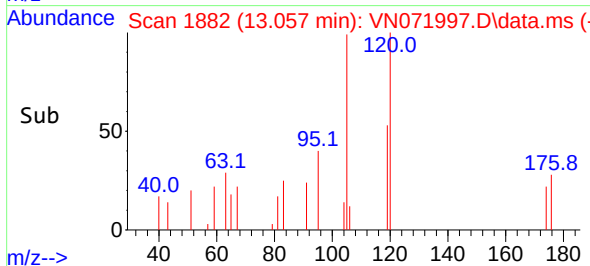
Instrument :
MSVOA_N
ClientSampleId :
220413004-02-VOA



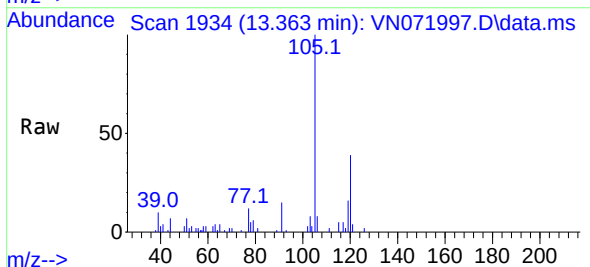
Tgt Ion:105 Resp: 5659
Ion Ratio Lower Upper
105 100
120 54.0 0.0 93.8

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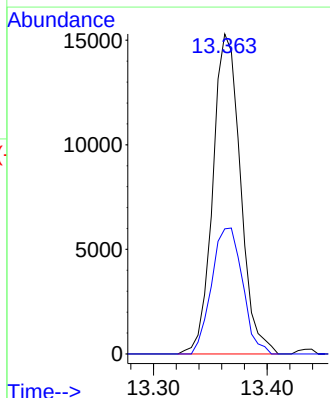
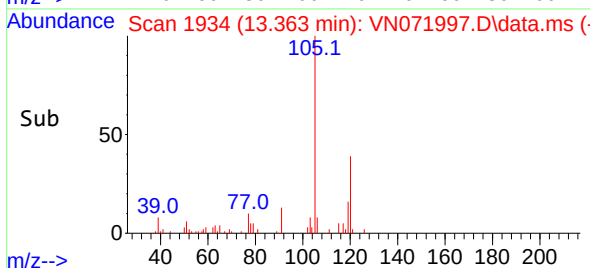
Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022

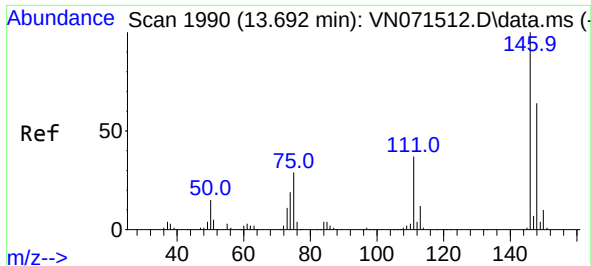


#80
1,2,4-Trimethylbenzene
Concen: 1.352 ug/l
RT: 13.363 min Scan# 1934
Delta R.T. -0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07



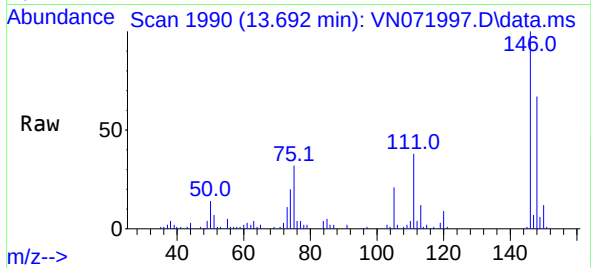
Tgt Ion:105 Resp: 25860
Ion Ratio Lower Upper
105 100
120 44.0 0.0 0.2#





#84
1,4-Dichlorobenzene
Concen: 6.836 ug/l
RT: 13.692 min Scan# 1990
Delta R.T. -0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

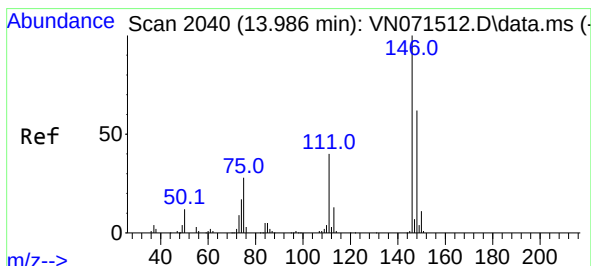
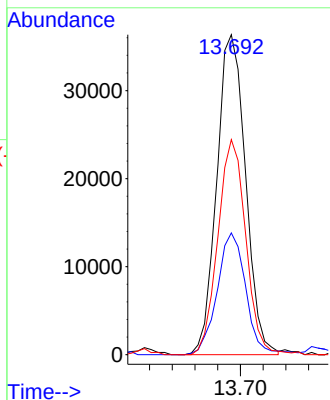
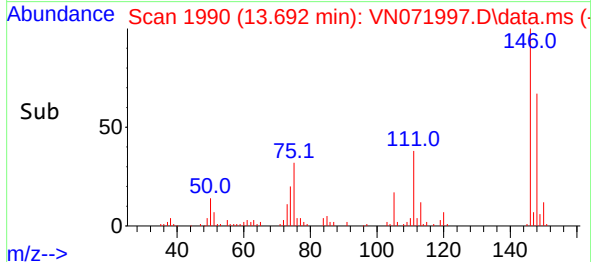
Instrument :
MSVOA_N
ClientSampleId :
220413004-02-VOA



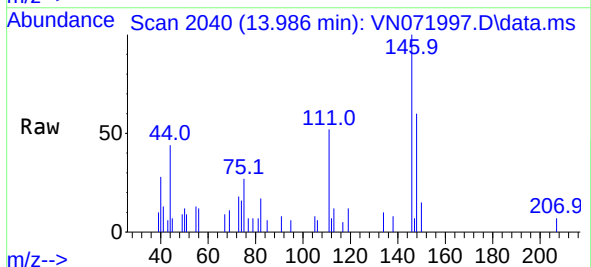
Tgt Ion:146 Resp: 63990
Ion Ratio Lower Upper
146 100
111 38.0 19.5 58.5
148 65.1 31.1 93.5

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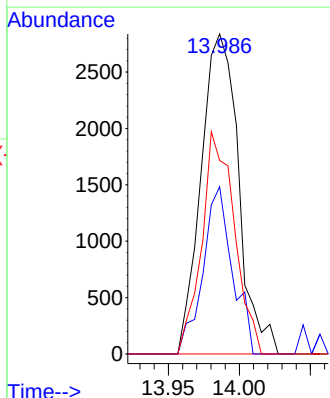
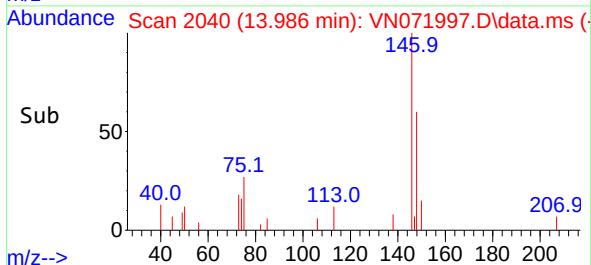
Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022

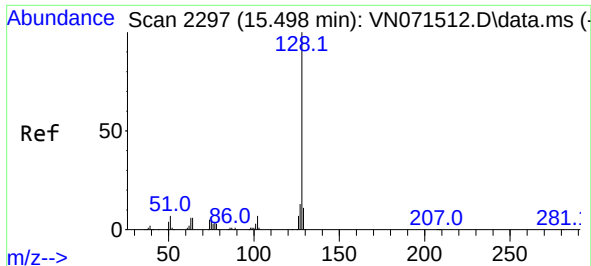


#87
1,2-Dichlorobenzene
Concen: 0.550 ug/l
RT: 13.986 min Scan# 2040
Delta R.T. -0.000 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07



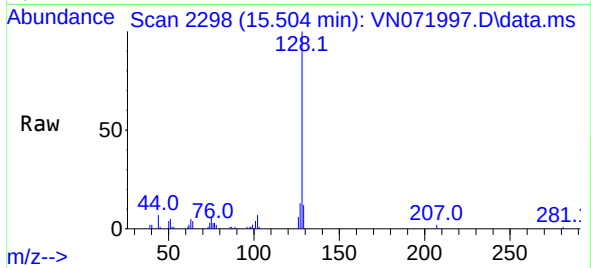
Tgt Ion:146 Resp: 5215
Ion Ratio Lower Upper
146 100
111 41.1 21.4 64.2
148 60.5 32.5 97.4





#91
Naphthalene
Concen: 9.470 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN071997.D
Acq: 14 Apr 2022 15:07

Instrument :
MSVOA_N
ClientSampleId :
220413004-02-VOA



Tgt Ion:128 Resp: 43778
Ion Ratio Lower Upper
128 100
127 12.6 10.7 16.1
129 10.3 9.0 13.6

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Reviewed By :Krupa Patel 04/15/2022
Supervised By :Mahesh Dadoda 04/15/2022

